

9/19/1

008752679

WPI Acc No: 1991-256695/199135

**Fire retardant polystyrene resin foam prodn. - by mixing
partially foamed polystyrene resin beads with heat-expandable graphite
coated with film-forming resin and foaming**

Patent Assignee: NIPPON KASEI KK (NIKS)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 3167237	A	19910719	JP 89308398	A	19891128	199135 B

Priority Applications (No Type Date): JP 89308398 A 19891128

Abstract (Basic): JP 3167237 A

A foamable polystyrene resin bead which is preliminarily foamed to 5-95% of the max. expanding magnification at preliminary foaming temp. is mixed with 7-50 wt.% thermoexpanding graphite whose surface is coated with a film forming resin of 0.05-1 times the weight of that graphite, and foamed.

Pref. the film-forming resin is at least one polymer of acrylonitrile-butadiene copolymer, styrene-butadiene copolymer, EVA copolymer, polyvinylacetate resin, PVC resin and polyacrylate resin, or a water soluble polymer.

USE/ADVANTAGE - The resin foam is used as fire retardant material, building material and cushioning material. It has a high fire retardancy and high self extinguishing properties and gives no drips of molten resin and soot when it is heated by a flame.

Dwg.0/0

Title Terms: FIRE; RETARD; POLYSTYRENE; RESIN; FOAM; PRODUCE; MIX; FOAM;
POLYSTYRENE; RESIN; BEAD; HEAT; EXPAND; GRAPHITE; COATING; FILM; FORMING;
RESIN; FOAM

Derwent Class: A18

International Patent Class (Main): C08J-009/22

International Patent Class (Additional): C08K-003/04; C08L-025/00

File Segment: CPI

Manual Codes (CPI/A-N): A08-B; A08-F; A11-B06; A12-D01; A12-R01; A12-S01A

Plasdoc Codes (KS): 3003 0209 0218 0221 0226 0241 3155 0304 0305 0306 3159

3160 0318 0376 3170 0486 0487 0759 0760 0787 0788 0789 0906 1095 2007

2225 3220 2306 3222 2378 2382 2386 2442 2446 2540 2541 2575 2623 2679

2691 2729

Polymer Fragment Codes (PF):

001 014 02& 034 040 041 046 047 055 056 058 061 062 063 066 067 072

074 076 081 101 117 122 13- 231 244 245 27& 301 307 312 393 402

405 408 409 427 44- 445 448 449 477 491 50- 532 537 539 54& 551

56& 560 562 613 688 720 726

Derwent Registry Numbers: 1778-U

Derwent WPI (Dialog® File 351): (c) 2005 Thomson Derwent. All rights reserved.

© 2005 Dialog, a Thomson business

BEST AVAILABLE COPY